

AMENDED CLAIMS

Claim 1 (currently amended) Double burner for gas cookers, of the type provided with multiple concentric flame crowns, which comprises:

one head (T) with multiple concentric flame crowns, a first flame crown of external flames (FE) and a second flame crown of central flames (FC);

one circular body (1) having a centre, a bottom and partitions (9) used to define two different, not-communicating channels, a first channel (E) used to supply gas to the ~~crowns of~~ external flames (FE) and a second central channel (C) to supply gas to the central flames (FC);

two separate, not-communicating gas inlets, an upper inlet (3) and a lower inlet (4), both inlets being situated on the bottom of the body (1), the upper inlet being used to supply gas to the second channel and the lower inlet being used to supply gas to the first channel, the upper inlet (3) exactly ending in the centre of the body (1) and the lower inlet (4) extending beyond the centre of the body;

burner having a vertical channel (3a) branching off from the upper inlet (3), said vertical channel (3a) being provided with a first gas nozzle (5) designed to introduce gas into the second central channel (C), a diverging pair of ascending channels (4a) branching off from the lower inlet, a respective nozzle (6) being disposed in each ascending channel designed to introduce gas into the first channel (E); a Venturi chamber (5a) with vertical axis is situated downstream the first nozzle (5), and a pair of Venturi chambers (6a) each with inclined axis is situated downstream each of the nozzles (6).

Claim 2 (previously amended) Burner as defined in claim 1, wherein the head (T) is composed of a lower dish (7) and an upper dish (8, 80) that match perfectly, the lower dish (7)

having a truncated conical shape and a stepped external border (7a) that acts as support and centering for the upper dish (8, 80), the upper dish having a stepped perimeter collar (8a), a partition having a top and walls (9), a flat flange (9a) being formed on the top of the partition walls, the flange providing support and centering for the upper dish, the flange protruding from the centre of the body (1) and separating the channels (C and E).

Claim 3 (previously amended) Burner as defined in claim 2, wherein the lower dish (7) and the upper dish (8, 80) feature semi-conduits (7b and 8b), respectively, which form the Venturi chambers (6a).

Claim 4 (previously amended) Burner as defined in claim 2, wherein a V-shaped deflector wall (10) is formed on the lower dish (7), the deflector wall being situated downstream of the chambers (6a), wherein the air-gas flow coming from the chambers (6a), is bifurcated and is conveyed inside a semi-circular corridor (11) that feeds the concentric external flame (FC).

Claim 5 (previously amended) Burner as defined in claim 4, wherein the head (T) comprises an annular cap (13) and a circular cap (14) used to close the corridor (11) and the Venturi chamber (5), respectively; the upper dish (8) is provided with toothed crowns (12) shaped in such a way as to give a horizontal direction to the flames, together with the caps (13 and 14).

Claim 6 (previously amended) Burner as defined in claim 4, wherein the head (T) comprises an annular cap (130) and a circular cap (140) that close the corridor (11) and the Venturi chamber (5), respectively; the upper dish (80) having three toothed crowns (12) shaped in such a way as to give a vertically inclined direction to the flames, together with the caps (130 and 140).

Claim 7 (previously amended) Burner as defined in claim 1, wherein a hole (15) having a vertical axis with respect to the center of the body (1) is formed from the lower gas inlet (4), terminating in the coaxial channel (3a) with the nozzle (5) and the upper gas inlet (3) being blocked in the presence of the hole (15).